

We Claim:

1. A blood processing system comprising  
a first container to receive blood for  
centrifugal processing into a first component and a  
second component comprising plasma,

a second container to receive the second  
component from the first container, and

a filter to remove cellular species from the  
second component.

2. A blood processing system according to  
claim 1

wherein the first component comprises red  
blood cells.

3. A blood processing system according to  
claim 1

further including a filter to remove  
leukocytes from the first component in a downstream  
flow direction from the first container.

4. A blood processing system according to  
claim 1

further including a filter to remove  
leukocytes from blood in an upstream flow direction  
from the first container.

5. A blood processing system according to  
claim 1

further including a transfer container to  
receive the first component from the first container.

6. A blood processing system according to  
claim 5

further including a filter located between  
the first container and the transfer container to  
remove leukocytes from the first component.

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7. A blood processing system according to  
claim 1

wherein the filter to remove cellular  
species from the second component is located in an  
upstream flow direction from the second container.

8. A blood processing system according to  
claim 1

wherein the filter to remove cellular  
species from the second component is located between  
the first container and the second container.

9. A blood processing system according to  
claim 1

wherein the filter to remove cellular  
species from the second component is located in a  
downstream flow direction from the second container.

10. A blood processing system according to  
claim 1

further including a transfer container  
communicating with the second container in a  
downstream flow direction from the second container.

11. A blood processing system according to  
claim 10

wherein the filter to remove cellular  
species from the second component is located between  
the second container and the transfer container.

12. A blood processing system according to  
claim 1

further including an auxiliary container  
holding an additive solution.

13. A blood processing system according to  
claim 12

wherein the auxiliary container communicates

with the first container.

14. A blood processing system according to  
claim 12

wherein the auxiliary container communicates  
with the second container.

15. A blood processing system according to  
claim 14

wherein the filter to remove cellular  
species from the second component is located between  
the second container and the auxiliary container.

16. A blood processing system according to  
claim 12

wherein the auxiliary container communicates  
with both the first and second containers.

17. A blood processing system according to  
claim 16

wherein the filter to remove cellular  
species from the second component is located between  
the second container and the auxiliary container.

18. A blood processing method comprising  
processing whole blood using a system as defined in  
claim 1.